

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EKRON QUADRANGLE
151 KY. - 1 IND.
N3745-W8600/15
DIAGRAM NJ 16-8
EVANSVILLE

Breckenridge, Hardin, and
Meade County, Ky.
Harrison County, Ind.

Final adjustment of 1971

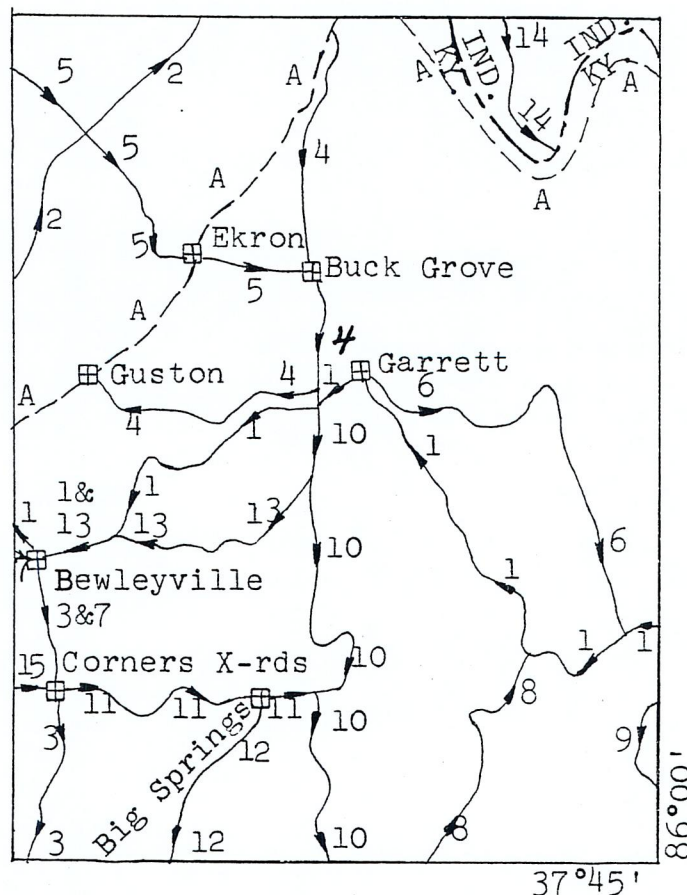
Edition of 8/16/71

PR: DSW/dt

Only the permanent marks
are listed for lines
run more than 25 years
before edition date.
Isolated bench marks not
spotted on diagram

CORYDON
(10 IND. - 174 KY.)

HARDINSBURG
(152 KY.)



VINE GROVE
(150 KY. - 1A IND.)

BIG CLIFTY
(127 KY.)

NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 370861

INDEX OF PERMANENT MARKS

<u>MARK (USGS)</u>	<u>PAGE NO.</u>	<u>MARK (USGS)</u>	<u>PAGE NO.</u>
PTS NO 15 K 1928	8,13,15	TT 45 D 1939	15
TT 18 MS 1946		TT 21 RCD 1945	10
PTS NO 129 1918 749	3	TT 3 MS 1946	12
PTS NO 130 1918 742	3	TT 9 MS 1946	13
PTS NO 131 1918 462	3	TT 10 MS 1946	13,14
PTS NO 132 1918 442	3	TT 11 MS 1946	12
PTS NO 133 1918 449	3	TT 12 MS 1946	12
PTS NO 134 1918 445	3	TT 13 MS 1946	12,14
PTS NO 135 1918 439	3	TT 14 MS 1946	9,10
PTS NO 143 1918 416	4	TT 15 MS 1946	9
PTS NO 144 1918 462	5	TT 19 MS 1946	11
PTS NO 145 1918 682	4	JWM 1 1946	9
PTS NO 146 1918 644	4	JWM 2 1946	10
PTS NO 147 1918 521	5	WCS 1 1946	13
PTS NO 148 1918 638	4	WCS 2 1946	13
PTS NO 157 1918 745	4	WCS 3 1946	14
PTS NO 158 1918 682	4	WCS 4 1946	14
PTS NO 160 1918 480	4	WCS 5 1946	15
PTS NO 174 1918 479	4	WDL 1 1946	11
PTS NO 175 1918 651	5	WDL 3 1946	11
PTS NO 200 1918 705	5		
PTS NO 205 1918 419	3	<u>USCE</u>	
PTS NO 206 1918 474	4		
1918 555	5	EK 4 755	11
TT STA NO 1 K 1928	5,12	EK 7 675	13
TT STA NO 2 K 1928	6	EK 9	14
TT STA NO 3 K 1928	6,10	701 EK 10	11
TT STA NO 4 K 1928	6,9,10,12		
TT STA NO 5 K 1928	6	<u>USC&GS</u>	
TT STA NO 6 K 1928	7		
TT STA NO 7 K 1928	7,8,15	G 81 1935	9
TT STA NO 10 K 1928	7	J 81 1935	10
TT STA NO 11 K 1928	7,9	N 81 1935	9
TT STA NO 16 K 1928	8		

EKRON
Books B 298 and B 296

KY. - IND.

E. E. HARRIS
R. B. STEEL

1918

Feet

ISOLATED BENCH MARKS ESTABLISHED PRIOR TO 1919
(By E. E. Harris, R. B. Steel, 1918;
Books B 298 and B 296)

Muldraugh, 0.1 mi W., thence 0.9 mi N. from; on W. side of rd. at T-rd. E. to Twin Cave; on iron post; standard tablet stamped "PRIM TRAV STA NO 129 1918 749"	748.339
Muldraugh, 0.1 mi W., thence 1.8 mi N. from; 0.7 mi S. of Bartles School; on W. edge of rd.; 40 ft S. of rd. W.; on iron post; standard tablet stamped "PRIM TRAV STA NO 130 1918 742"	741.610
Bartles School; on S. side of rd.; in front of school building; in line with T-rd. N.; on iron post; standard tablet stamped "PRIM TRAV STA NO 131 1918 462"	461.870
West Point, about 5.95 mi W. of, along L. & N. RR. from junction of Illinois Central Railroad; 6.5 ft E. of E. rail; 9.5 ft N. of E. end of N. abutment of bridge over Otter Creek; 71 ft SSE. and across track from pole 28/17; 1 ft below level of track; on iron pipe projecting about 3 in.; standard tablet stamped "PRIM TRAV STA NO 132 1918 442" (Not found, 1960)	441.784
West Point, 5.4 mi SW. along L. & N. RR. from station; at rd. crossing; 21 ft SW. of crossing; 16 ft S. of sand rd.; 15 ft W. of, and level with base of W. rail; 10 ft E. of right-of-way fence; on iron pipe; standard tablet stamped "PRIM TRAV STA NO 133 1918 449"	448.903
Bartles station, 0.6 mi N. of, in SW. corner of rd. crossing; on iron post; standard tablet stamped "PRIM TRAV STA NO 134 1918 445" (Reported not found, 1960)	444.225
Piltcher station; in NW. corner of rd. crossing; on iron post; standard tablet stamped "PRIM TRAV STA NO 135 1918 439" (Recovered by USC&GS, 1953) (Reported destroyed, 1953)	438.241
Bartles, 0.5 mi SE. of, 0.4 mi NW. of Bartles School; on N. edge of rd. to station; on E. side of rd. NE.; on iron post; standard tablet stamped "PRIM TRAV STA NO 205 1918 419"	418.251

EKRON
Books B 298 and B 296

KY. - IND.

E. E. HARRIS
R. B. STEEL

1918

Feet

ISOLATED BENCH MARKS (Cont'd.)

Bartles School, 0.9 mi NE. of, in SE. angle of crossroads; on iron post; standard tablet stamped "PRIM TRAV STA NO 206 1918 474"	473.528
Muldraugh, 0.8 mi SW. of, in SW. angle of crossroads; on iron post; standard cap stamped "PRIM TRAV STA NO 157 1918 745" (Not found, 1960)	744.386
Muldraugh, 1.3 mi SW. of, on S. edge of rd.; in line with T-rd. N.; on iron post; standard tablet stamped "PRIM TRAV STA NO 158 1918 682"	681.341
Garnettsville, 0.8 mi N. of, at rd. forks; on W. edge of N.-S. rd.; in line with rd. E. to Muldraugh; on iron post; standard tablet stamped "PRIM TRAV STA NO 160 1918 480"	479.765
Garnettsville; in SW. angle of crossroads; on iron post; standard tablet stamped "PRIM TRAV STA NO 174 1918 479" (Not found, 1960)	478.854
Garnettsville, 0.6 mi S. of, 100 ft N. of brow of hill; on E. edge of rd.; in top of large flat stone; standard tablet stamped "PRIM TRAV STA NO 148 1918 638" (Not found, 1960)	638.056
Grahamton, 0.4 mi E. of; at crossroads; in NE. corner of cemetery and churchyard; on iron post; standard cap stamped "PRIM TRAV STA NO 146 1918 644" (Not found, 1960)	643.240
Grahamton, 1.2 mi E. of; 25 ft N. of center of rd. at junction of T-rd. S.; on iron post; standard cap stamped "PRIM TRAV STA NO 145 1918 682"	681.248
Garnettsville, 1.7 mi N. of, 30 ft S. of Otter Creek; 10 ft E. of N.-S. rd.; on iron post; standard tablet stamped "PRIM TRAV STA NO 143 1918 416"	415.793

1918

ISOLATED BENCH MARKS (Cont'd.)Feet

Barnettsville, 2.7 mi N. of, on E. edge of N.-S. rd.; on N. side of T-rd. E.; on iron post; standard tablet stamped "PRIM TRAV STA NO 144 1918 462"	461.400
Muldraugh, 1.5 mi NW. of, 1.0 mi N. of Garnettsville rd.; 42 ft E. of rd.; 8 ft N. of private T-rd. E.; on iron post; standard tablet stamped "PRIM TRAV STA NO 200 1918 705"	704.859
Garnettsville, 0.7 mi SE. of, on SW. side of rd. at forks of rd. SW.; on iron post; standard tablet stamped "PRIM TRAV STA NO 175 1918 651"	651.069
Grahamton; at N. end; on W. side of wagon bridge over Otter Creek; in top of stone and concrete abutment; standard tablet stamped "PRIM TRAV STA NO 147 1918 521"	520.245
Grahamton, 1.1 mi S. of, at McCracken Spring; 9 ft SW. of top of S. inside corner of main outlet; 3.5 ft W. of S. edge of S. outlet; in rock ledge; standard tablet stamped 1918 555"	554.676

LINE 1.

FROM VINE GROVE QUADRANGLE ALONG ROADS WEST AND NORTH TO GARRETT THENCE SOUTHWEST AND NORTH BY WAY OF BEWLEYVILLE INTO HARDINSBURG QUADRANGLE (By Floyd Neary, 1928; Book B 2860)

U.E., Vine Grove, 1.0 mi W. of, 0.57 mi E. of Otter Creek bridge; on N. headwall of concrete culvert; chiseled square	641.17
Vine Grove, 3.75 mi SW. of, 3.1 mi SE. of Flaherty; in S. corner of crossroads; 30 ft S. of intersection of Brandenburg-Elizabethtown and Big Spring-Vine Grove rds.; at public rd. SW.; in pasture; 10 ft S. of corner of post of wire fence; in concrete post; standard tablet stamped "TT STA NO 1 K 1928" (Recovered in 1946) (Reported not found, 1960)	720.531

1928

LINE 1 (Cont'd.)Feet

Flaherty; in NW. corner of junction of Bradenburg-Elizabethtown pike and public rd. SW. to Big Spring; at fence corner; 15 ft N. and 40 ft W. of center of junction; in concrete post; standard tablet stamped "TT STA NO 2 K 1928"	793.435
Reference mark NO. 1; 130 ft S. 60° E. from tablet; at entrance to residence of A. S. Berry; 1 ft W. of gatepost; on concrete sidewalk; chiseled square	788.16
Reference mark NO. 2; 50 ft N. 50° E. from tablet; on concrete foundation of old gasoline stand; chiseled square	790.40
U.E., Flaherty, 2.5 mi NW. of, 1.2 mi S. of U. S. Highway 60, along old pike; on S. end of E. headwall of concrete bridge; chiseled square	765.06
Garrett, 1.5 mi SE. of; in SE. angle of intersection of U.S. Highway 60 and State Highway 64; 29 ft E. of centerline of Highway 64; 3 ft SW. of powerline and 1 ft S. of white witness post; in concrete post projecting 6 in.; standard tablet stamped "TT STA NO 3 K 1928"	722.779
U.E., Garrett, 0.9 mi SE. of, about 0.46 mi NW. of forks of rd. to Flaherty; on SE. end of SW. headwall of concrete culvert; chiseled square	679.02
U.E., Garrett, 20 ft E. of crossroads; on SE. corner of concrete foundation of gasoline stand; chiseled square	683.87
Garrett, 1.25 mi SW. of, 30 ft N. and 20 ft E. from junction of old Salt River rd. and Brandenburg-Big Spring pike; in corner of wire fence; in concrete post; standard tablet stamped "TT STA NO 4 K 1928" (Recovered in 1946)	666.301
Hill Grove; in NE. corner of crossroads; 30 ft S. and 50 ft E. from intersection; in limestone outcrop; standard tablet stamped "TT STA NO 5 K 1928" (Recovered and elevation redetermined in 1946; disturbance indicated)	705.170
Reference mark; 60 ft S. of tablet; on boulder; chiseled square	701.53

1928

LINE 1 (Cont'd.)Feet

Bewleyville, 2.0 mi NE. of, 120 ft S. of junction;
30 ft N. and 30 ft E. of farmhouse; in concrete
post; standard tablet stamped "TT STA NO 6 K 1928"
(Reported not found, 1961) 644.952

Bewleyville, 100 ft W. of four corners; opposite and
25 ft S. of W. entrance to Methodist Church; in
limestone outcrop; standard tablet stamped
"TT STA NO 7 K 1928" (Recovered in 1946) 710.811

Reference mark; 115 ft S. 60° E. from tablet; on
rock outcrop; chiseled square 701.88

LINE 2.

FROM HARDINSBURG QUADRANGLE ALONG ROADS NORTHEAST INTO
CORYDON QUADRANGLE (By Floyd Neary, 1928; Book B 2860)

U.E., Irvington, 3.6 mi NE. of, 400 ft SW. of second-
class crossroad; on NW. headwall of concrete culvert;
chiseled square 648.88

Irvington, 4.0 mi NE. of, 32 ft W. of U. S. Highway
60; 35 ft S. of T-rd. S.; on top of hill; in
concrete post; standard tablet stamped
"TT STA NO 10 K 1928" (Reported not found, 1961) 724.137

Reference mark; 100 ft N. of tablet; 30 ft W. of
hwy.; on large flat rock; chiseled square 716.78

U.E., Irvington, 5.1 mi NE. of, 0.7 mi S. of
Richardson's garage; 50 ft NW. of rd. forks; on
W. headwall of concrete culvert; chiseled square 717.73

U.E., Brandenburg, 5.4 mi SW. of, 375 ft NE. of
Richardson's garage; on SE. headwall of concrete
culvert; chiseled square 637.04

Brandenburg, 3.7 mi SW. of, 25 ft SE. of center of
U. S. Highway 60; 3 ft E. of wire fence; in line
with public rd. NW. to Highland Church; in con-
crete post; standard tablet stamped
"TT STA NO 11 K 1928" (Recovered in 1946) 607.873

1928

LINE 2 (Cont'd.)Feet

U.E., Brandenburg, 3.5 mi SW. of, 20 ft E. of rd. forks; at entrance to dwelling of J. H. Foucher; on concrete platform; chiseled square 592.08

U.E., Brandenburg, 2.5 mi SW. of, about 600 ft SE. of dwelling of Tom Wallace; on NW. headwall of concrete culvert; chiseled square 584.56

U.E., Brandenburg, 1.6 mi SW. of, 350 ft NE. of private rd. NW.; on NW. headwall of concrete culvert; chiseled square 588.52

LINE 3.

FROM BEWLEYVILLE ALONG ROADS SOUTH INTO BIG CLIFTY QUADRANGLE (By Floyd Neary, 1928; Book B 2860)

"TT STA NO 7 K 1928" (Described in line 1) 710.811

U.E., Bewleyville, 1.2 mi S. of, 90 ft NE. of crossroads; 5 ft NW. of rd. NE.; on rock; chiseled square (Recovered in 1946) 619.18

Corners Crossroads; at Corners Methodist Church; 6 ft S. of SW. corner of church; in concrete post; standard tablet stamped "PRIM TRAV STA NO 15 K 1928 TT 18 MS 1946" 653.685

U.E., Custer, 2.9 mi N. of, 40 ft S. of rd. forks near school; on E. edge of rd.; on flat rock; chiseled square 649.43

Custer, 2.3 mi N. of, 450 ft S. of covered bridge; 50 ft S. of center of rd.; 40 ft S. and 50 ft W. of private T-rd. W.; in limestone outcrop; standard tablet stamped "TT STA NO 16 K 1928" 598.118

Reference mark; 15 ft S. 50° E. from tablet; 20 ft W. of rd.; on rock outcrop; chiseled square 598.27

U.E., Custer, 1.5 mi N. of, 50 ft SW. of rd. forks; 20 ft NE. of abandoned store; on rock outcrop; chiseled square 662.02

1946

FeetLINE 4.

FROM POINT 2.2 MILES WEST OF LONE BRANCH ON LOUISVILLE AND NASHVILLE RAILROAD ALONG ROADS SOUTH TO POINT 1.2 MILES SOUTHWEST OF GARRETT THENCE GENERALLY WEST TO GUSTON (By J. W. McLaughlin, 1946; Book V 294 a)

"N 81 1935" (USC&GS)	634.667
Brandenburg, 1.5 mi SE. of station; 28 ft S. and 22 ft E. of junction of rd. E.; in concrete post; standard tablet stamped "TT 15 MS 1946"	662.503
U.E., Brandenburg, 2.7 mi SE. of, about 100 ft E. of Reesor's store; 35 ft W. of centerline of hwy.; in base on E. side of power pole; rail spike	636.22
Brandenburg, 3.8 mi SE. of, at Buck Grove; 42 ft S. and 15 ft W. of crossroads; in fence corner; in concrete post; standard tablet stamped "TT 14 MS 1946" (Reported not found, 1961)	652.522
"TT STA NO 4 K 1928" (Described in line 1)	666.301
Guston, 3.0 mi E. of, along graded rd.; 70 ft SE. of crossroads; 60 ft N. of telephone line; in top of limestone outcrop; standard tablet stamped "JWM 1 1946"	745.156
Reference mark; 60 ft NW. of tablet; 10 ft SE. of center of crossroads; on limestone outcrop; chiseled square	743.66
"G 81 1935" (USC&GS)	697.709

LINE 5.

FROM HARDINSBURG QUADRANGLE ALONG ROADS SOUTHEAST TO EKRON THENCE EAST TO BUCK GROVE (By J. W. McLaughlin, 1946; Book V 294 a)

U.E., Ekron, 5.9 mi NW. of, 1.1 mi W., along State Highway 64 from junction of U. S. Highway 60; about 130 ft SW. of house; 30 ft SW. of center of rd.; on limestone outcrop; chiseled square	654.76
"TT STA NO 11 K 1928" (Described in line 2)	607.873

1946

LINE 5 (Cont'd.)Feet

Ekron, 2.0 mi NW. of, 0.3 mi NE., along U. S. Highway 60 from junction of State Highway 64, thence 2.3 mi SE. along graveled rd.; 90 ft S. and 13 ft W. of junction of T-rd. W.; in N. end of concrete culvert; standard tablet stamped "JWM 2 1946" (Reported not found, 1961)

620.053

Reference mark; 25 ft E. of tablet; on S. end of concrete culvert; chiseled square

620.94

"J 81 1935" (USC&GS) (Reported not found, 1961)

658.965

"TT 14 MS 1946" (Described in line 4) (Reported not found, 1961)

652.522

LINE 6.

FROM POINT 1.2 MILES SOUTHWEST OF GARRETT ALONG ROADS EAST AND SOUTHEAST TO POINT 1.9 MILES WEST OF PINE GROVE (By W. D. Leech, 1946; Book V 294 a)

"TT STA NO 4 K 1928" (Described in line 1)

666.301

U.E., Garrett, 430 ft S. of crossroads; on N. end of E. headwall of culvert; chiseled square

675.08

U.E., Garrett, 0.9 mi SE. of, about 0.46 mi NW. of forks of rd. to Flaherty; on SE. end of SW. headwall of culvert; chiseled square

678.90

"TT STA NO 3 K 1938" (Described in line 1)

722.779

Reference mark; 170 ft NW. of tablet; on SW. side of hwy.; on end of concrete shoulder of pavement; chiseled square

728.01

U.E., Garrett, 3.4 mi E. of, along U. S. Highway 60; at crossroads; in line with rd. NW.; on S. concrete shoulder of pavement; chiseled square

683.49

Garrett, 3.8 mi E. of, along U. S. Highway 60, 4.6 mi SW. of junction of U. S. Highways 31 and 60; 34 ft N. of junction of private rd. N.; at SW. corner of field; 3 ft higher than hwy.; in concrete post; standard tablet stamped "TT 21 RCD 1945" (Reported destroyed, 1960)

682.789

Reference mark; 580 ft N. of tablet; on NW. side of hwy.; on headwall of culvert; chiseled square

664.75

1946

LINE 6 (Cont'd.)Feet

Garrett, 4.9 mi E., along U. S. Highway 60, thence
1.0 mi S. along graveled rd.; on W. boundary of
Fort Knox; in line with T-rd. W.; 30 ft E. of rd.;
in concrete post; standard tablet stamped
"WDL 1 1946" (Reported not found, 1960)

704.815

Garrett, 4.9 mi E., along U. S. Highway 60, thence
3.9 mi S. along graveled rd.; 3.7 mi NW. of Vine
Grove; about 60 ft NW. of house standing on E.
side of rd. at hilltop; on E. edge of rd.; in
concrete post; U.S.C.E. standard disk stamped
"701 EK 10"

700.565

LINE 7.

FROM HARDINSBURG QUADRANGLE ALONG ROADS SOUTH BY WAY
OF BEWLEYVILLE TO CORNERS CROSSROADS (By J. W.
McLaughlin, 1946; Book V 294 a)

U.E., Bewleyville, 1.2 mi S. of, chiseled square
(Described in line 3)

619.18

Bewleyville, 1.8 mi S. of, 1.5 mi N. of Corners
Crossroads; at top of hill; 15 ft S. and 24 ft
W. of crossroads; in concrete post; standard
tablet stamped "TT 19 MS 1946" (Reported
destroyed, 1961)

729.046

LINE 8.

FROM BIG CLIFTY QUADRANGLE ALONG ROADS NORTHEAST TO
POINT 3.1 MILES SOUTHEAST OF FLAHERTY (By W. D. Leech,
1946; Book V 294 a)

Salem Church, 1.9 mi S. of, 40 ft NE. of junction of
T-rd. E.; 30 ft E. of rd.; in concrete post;
standard tablet stamped "WDL 3 1946" (Reported
not found, 1960)

811.903

Salem Church, about 0.2 mi E. of, 30 ft S. and in
SE. angle of junction of private rd. SW. to house
on hill top; in concrete post; U.S.C.E. standard
disk stamped "EK 4 755"

775.249

Caution: Stamping "755" may be subject to correction.
Data unavailable.

1946

LINE 8 (Cont'd.)Feet

Reference mark; 620 ft E. of disk; on W. end of N.
headwall of bridge; chiseled square

748.87

"TT STA NO 1 K 1928" (Described in line 1)

720.531

LINE 9.

JOG FROM PINE GROVE QUADRANGLE (By W. D. Leech, 1946;
Book V 294 a)

Vine Grove, 3.1 mi SW. of, 2.8 mi NW. of Rineyville;
34 ft NW. of junction of T-rd. W.; in concrete
post; standard tablet stamped "TT 3 MS 1946"
(Reported not found, 1960)

756.340

LINE 10.

FROM POINT 1.2 MILES SOUTHWEST OF GARRETT ALONG ROADS
SOUTH INTO BIG CLIFTY QUADRANGLE (By W. C. Sowers,
1946; Book V 294 a)

"TT STA NO 4 K 1928" (Described in line 1)

666.301

Big Spring, 5.0 mi N. of, 15 ft N. and 15 ft W. of
Y-junction of rd. SE. and 21 ft on centerline
extended NW.; in concrete post; standard tablet
stamped "TT 13 MS 1946" (Reported not found, 1961)

713.783

Big Spring, 3.0 mi N. of, 58 ft N. and 20 ft E. of
junction of T-rd. E.; in concrete post; standard
tablet stamped "TT 12 MS 1946"

734.467

Reference mark; 80 ft NE. of tablet; on lower step
of SW. corner of store building; chiseled square

737.32

U.E., Old Clarkson Spring, 68 ft SE. of, near top
of small hill; on limestone outcrop; chiseled
square

751.69

Big Spring, 1.25 mi N. and 2.0 mi E. of, 0.7 mi S.
of Old Clarkson Spring; 30 ft N. of intersection
of rd. and lane W. through field to house; in
SW. corner of pasture; 23 ft NE. of 12-in.
black walnut tree; in fence corner; in concrete
post; standard tablet stamped "TT 11 MS 1946"
(Reported not found, 1960)

755.309

1946

LINE 10 (Cont'd.)Feet

Big Spring, 1.0 mi E. of, 375 ft S. and 50 ft W. of
T-rd. junction; in pasture; in limestone outcrop;
standard tablet stamped "TT 10 MS 1946" 714.968

Reference mark; 19 ft N. of tablet; on boulder;
chiseled square 716.86

Big Spring, 2.5 mi SE. of, 25 ft NW. of crossroads;
in concrete post; standard tablet stamped
"TT 9 MS 1946" (Reported destroyed, 1961) 920.984

LINE 11.

FROM CORNERS CROSSROADS ALONG ROADS EAST TO POINT 1.0
MILE EAST OF BIG SPRING (By W. C. Sowers, 1946;
Book V 294 a)

"PRIM TRAV STA NO 15 K 1928 TT 15 K 1928"
(Described in line 3) 653.685

Corners Crossroads, 2.3 mi E. of, 30 ft W. of T-rd.
NE.; 19 ft NE. of and about 1 ft higher than center
of rd.; in limestone outcrop; standard tablet
stamped "WCS 1 1946" (Reported not found, 1961) 699.187

Reference mark; 11 ft S. of tablet; on outcrop;
chiseled square 696.79

Corners Crossroads, 2.7 mi W. of, 350 ft W. of barn
of Leonard Pierce; 8 ft W. of 6-in. cedar tree; on
NE. bank of Mr. Pierce's driveway; in concrete
post; U.S.C.E. standard disk stamped "EK 7 675" 673.741

U.E., Corners Crossroads, 3.0 mi E. of, 300 ft W.
of farm house; 18 ft S. of and about 2 ft lower
than center of rd.; on W. end of concrete headwall;
chiseled square 651.60

Corners Crossroads, 4.0 mi E. of, 1.0 mi E. of Big
Spring; 24 ft N. of and about 3 ft higher than
center of rd.; in limestone outcrop; standard
tablet stamped "WCS 2 1946" 722.426

1946

LINE 11 (Cont'd.)Feet

Reference mark; 10 ft SE. of tablet; on limestone outcrop; chiseled square

719.76

U.E., Big Spring, 0.2 mi W. of church; 33 ft S. of and about 1.5 ft higher than center of rd.; on limestone outcrop; chiseled cross

675.94

"TT 10 MS 1946" (Described in line 10)

714.968

LINE 12.

FROM BIG SPRING ALONG ROADS SOUTHWEST INTO BIG CLIFTY QUADRANGLE (By W. C. Sowers, 1946; Book V 294 a)

U.E., Big Spring, 0.2 mi W. of church; chiseled cross (Described in line 11)

675.94

U.E., Big Spring, 1.0 mi SW. of, 245 ft N. of barn; 16 ft SE. of and 3 ft lower than center of rd.; on limestone outcrop; chiseled square

689.02

Big Spring, 2.0 mi SW. of, 180 ft NE. of junction of T-rd. SE.; 47 ft SE. of and about 4 ft higher than center of rd.; in limestone outcrop; standard tablet stamped "WCS 3 1946" (Reported destroyed, 1961)

843.148

LINE 13.

FROM POINT 5.0 MILES NORTH OF BIG SPRING ALONG ROADS SOUTHWEST TO BEWLEYVILLE (By W. C. Sowers, 1946; Book V 294 a)

"TT 13 MS 1946" (Described in line 10)

713.783

Garrett, 4.7 mi SW. of, 105 ft SW. of junction of graveled rd. and rd. to Stith Valley Farms; 10 ft NW. of rd.; 3 ft SE. of fence; in concrete post; U.S.C.E. standard disk stamped "EK 9" (Reported not found, 1961)

742.975

Garrett, 6.8 mi SW. of, 2.0 mi SW. of Stith Valley Farms; 3.7 mi E. of Bewleyville; 260 ft E. of small knoll; 81 ft S. of center of graveled rd.; near small clump of cedar trees; in limestone outcrop; standard tablet stamped "WCS 4 1946" (Reported not found, 1961)

672.799

1946

LINE 13 (Cont'd.)Feet

Reference mark; 15 ft E. of tablet; chiseled square	673.24
Bewleyville, 1.8 mi E. of, 60 ft E. of junction of rd. S.; 620 ft W. of farmhouse; 22 ft N. of center of rd.; in limestone outcrop; standard tablet stamped "WCS 5 1946" (Reported not found, 1961)	641.505
Reference mark; 16 ft S. of tablet; on limestone outcrop; chiseled square	640.09
"TT STA NO 7 K 1928" (Described in line 1)	710.811

LINE 14.

FROM CORYDON QUADRANGLE ALONG ROADS SOUTH TO POINT NEAR ROCK HAVEN (By B. B. Chamblin, 1948; Book AV 54 a)

Davidson, 2.5 mi N. of, 1.7 mi E., thence 2.7 mi S. from Laconia; near cor. secs. 10, 11, 14, and 15, T. 6 S., R. 4 E.; 8 ft S. and 24 ft W. of cross-roads; in NE. corner of field; in concrete post; standard tablet stamped "TT 45 D 1939"	683.576
Reference mark; 1350 ft S. of tablet; 75 ft S. of junction of private rd. W.; 15 ft W. of center of rd.; in base on E. side of telephone pole; rail spike	675.53
U.E., Rock Haven, about 1.1 mi below, on right bank of Ohio River; on farm of Jessie Withers; 137 ft land side of yard fence at intersection; land side of house along row of maple trees; 9.5 ft NE. of 22-in. maple tree; 24.6 ft SW. of 24-in. maple tree; 38.3 ft NW. of 22-in. maple tree; and 33.5 ft NW. of 24-in. maple tree; U.S.C.E. 2-in. iron pipe No. 982 mounted on a 4- by 4-in. concrete pedestal with copper bolt in center	450.510

LINE 15.

FROM HARDINSBURG QUADRANGLE ALONG ROADS EAST TO CORNERS CROSSROADS (By Fred Ludke, 1950; Book AV 218 a)

"PTS NO 15 K 1928 TT 18 MS 1946" (Described in line 3) (Also in line 11)	653.685
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HORIZONTAL CONTROL
NORTH AMERICAN DATUM OF 1927

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

37-086-11
EKRON QUADRANGLE
151 KY.-1 IND.
N3745-W8600/15
DIAGRAM NJ 16-8
EVANSVILLE

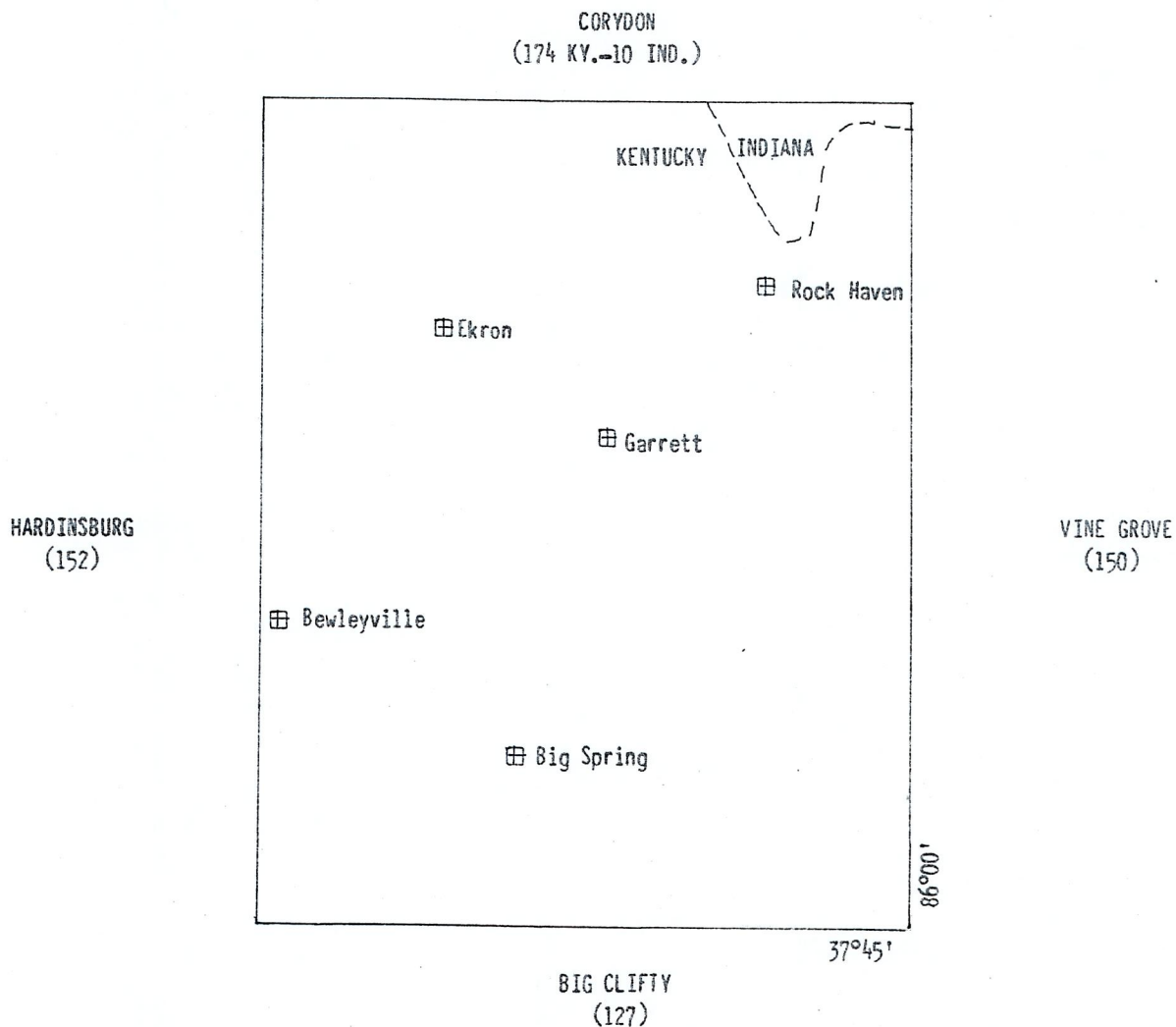
Breckinridge, Hardin, and Meade Counties, Ky.;
Harrison County, Ind.

Edition of 1/31/77

PR: CRV/rmm

Plane coordinates are based on Lambert projection
Kentucky, South Zone, and transverse Mercator
projection, Indiana, East Zone

Only the permanent marks are
listed for control classified
obsolete and are not shown on
sketch



DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

INDEX OF PERMANENT MARKS

<u>MARK (USGS)</u>	<u>PAGE NO.</u>
PTS NO 130 1918 742	3
PTS NO 131 1918 462	3
PTS NO 132 1918 442	3
PTS NO 133 1918 449	3
PTS NO 134 1918 445	3
PTS NO 135 1918 439	3
PTS NO 143 1918 416	3
PTS NO 144 1918 462	3
PTS NO 145 1918 682	4
PTS NO 146 1918 644	4
PTS NO 147 1918 521	4
PTS NO 148 1918 638	4
PTS NO 157 1918 745	4
PTS NO 158 1918 682	4
PTS NO 160 1918 480	4
PTS NO 174 1918 479	4
PTS NO 200 1918 705	4
PTS NO 205 1918 419	5
PTS NO 206 1918 474	5
TT STA NO 1 K 1928	5
TT STA NO 2 K 1928	5
TT STA NO 3 K 1928	9
TT STA NO 4 K 1928	5
TT STA NO 5 K 1928	5
TT STA NO 6 K 1928	5
TT STA NO 7 K 1928	5
TT STA NO 10 K 1928	6
TT STA NO 11 K 1928	6
TT STA NO 13 K 1928	6
TT STA NO 14 K 1928	6
TT STA NO 15 K 1928 TT 18 MS 1946	6
TT STA NO 16 K 1928	6
TT 45 D 1939	8
TT 21 RCD 1945	6
TT 22 RCD 1945	6
TT 23 RCD 1945	7
TT 24 RCD 1945	9
TT 25 RCD 1945	7
TT 26 RCD 1945	7
TT 3 MS 1946	7
TT 9 MS 1946	7
TT 10 MS 1946	7
TT 11 MS 1946	7
TT 12 MS 1946	8
TT 13 MS 1946	8
TT 14 MS 1946	88
TT 15 MS 1946	8
TT 19 MS 1946	8
TT 100 TWC 1951	9

151 KY.-1 IND.
EKRON QUADRANGLE

37-086-11
N3745-W8600/15

INDEX OF PERMANENT MARKS (Cont'd.)

<u>MARK (NGS)</u>	<u>PAGE NO.</u>
G 81 1935	9
N 81 1935	8
P 81 1935	8
Q 81 1935	7

STATION DESCRIPTION
PLANE COORDINATES, FEET

LATITUDE
° ' "

LONGITUDE
° ' "

The following positions are considered OBSOLETE. To be used only to locate permanent marks in the field.

By E. C. Bebb, 1918; Book A4382; O.B. Walsh and H.S. Senseney, 1918; Book A4415

Muldrough, 0.1 mi W., thence 1.8 mi NW. of; 0.7 mi SE. of Bartles School; on W. side of rd.; 40 ft S. of rd. W.; on iron post; standard cap stamped "PRIM TRAV STA NO 130 1918 742"

Ky. S.) X = 1,926,723 Y = 594,041 37 57 52.64 86 00 14.97

Bartles School; on S. side of rd.; in front of school building; in line with I-rd. N.; on iron post; standard tablet stamped "PRIM TRAV STA NO 131 1918 462"

X = 1,924,163 Y = 595,680 37 57 08.77 86 00 47.00

West Point, about 5.95 mi W. of, along Louisville and Nashville Railroad from junction of Illinois Central Railroad; 6.5 ft E. of E. rail; 9.5 ft N. of E. end of N. abutment of bridge over Otter Creek; 71 ft SSE. and across track from pole 28/17; 1 ft below level of track; on iron pipe projecting about 3 in.; standard tablet stamped "PRIM TRAV STA NO 132 1918 442" (Not found, 1960)

X = 1,919,586 Y = 593,871 37 57 50.76 86 01 44.09

West Point, 5.4 mi SW. along Louisville and Nashville Railroad from station; at rd. crossing; 21 ft SW. of crossing; 16 ft S. of sand rd.; 15 ft W. of, and level with base of W. rail; 10 ft E. of right-of-way fence; on iron pipe; standard tablet stamped "PRIM TRAV STA NO 133 1918 449"

X = 1,920,723 Y = 597,844 37 58 30.07 86 01 30.03

Bartles station, 0.6 mi N. of, in SW. corner of rd. crossing; on iron post; standard tablet stamped "PRIM TRAV STA NO 134 1918 445" (Not found, 1960)

X = 1,921,522 Y = 602,234 37 59 13.49 86 01 20.21

Piltcher station; in NW. corner of rd. crossing; on iron post; standard tablet stamped "PRIM TRAV STA NO 135 1918 439" (Reported destroyed, 1953)

X = 1,923,904 Y = 604,111 37 59 32.11 86 00 50.53

Garnettsville, 1.7 mi N. of; 10 ft E. of centerline of rd.; 30 ft S. of Otter Creek; on iron post; standard cap stamped "PRIM TRAV STA NO 143 1918 416"

X = 1,919,483 Y = 585,457 37 56 27.57 86 01 45.06

Barnettsville, 2.7 mi N. of, on E. edge of N.-S. rd.; on N. side of I-rd. E.; on iron post; standard tablet stamped "PRIM TRAV STA NO 144 1918 462"

X = 1,920,080 Y = 589,871 37 57 11.23 86 01 37.77

STATION	DESCRIPTION	LATITUDE	LONGITUDE
PLANE COORDINATES, FEET		° ' "	° ' "

OBSOLETE MARKS (Cont'd.)

Grahamton, 1.2 mi E. of; 25 ft N. of centerline of rd. at junction of T-rd. S.; on iron post; standard cap stamped "PRIM TRAV STA NO 145 1918 682"

Ky. S.)	X = 1,925,777	Y = 572,647	37 54 21.11	86 00 26.06
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Grahamton, 0.4 mi E. of; at crossroads; in NE. corner of cemetery and churchyard; on iron post; standard cap stamped "PRIM TRAV STA NO 146 1918 644" (Not found, 1960)

	X = 1,921,943	Y = 571,217	37 54 06.87	86 01 13.84
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Grahamton; at N. end; on W. side of wagon bridge over Otter Creek; in top of stone and concrete abutment; standard tablet stamped "PRIM TRAV STA NO 147 1918 521"

	X = 1,920,030	Y = 571,436	37 54 08.98	86 01 37.72
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Garnettsville, 0.6 mi S. of; 100 ft N. of brow of hill; on E. edge of rd.; in top of large flat stone; standard tablet stamped "PRIM TRAV STA NO 148 1918 638" (Not found, 1960)

	X = 1,920,338	Y = 575,196	37 54 46.16	86 01 34.01
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Muldrough, 0.8 mi SW. of; at SW. corner of junction of T-rd. SE.; on iron post; standard cap stamped "PRIM TRAV STA NO 157 1918 745" (Not found, 1960)

	X = 1,927,112	Y = 582,914	37 56 02.65	86 00 09.75
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Muldrough, 1.3 mi SW. of; on S. side of rd. in line with T-rd. N.; on iron post; standard cap stamped "PRIM TRAV STA NO 158 1918 682"

	X = 1,924,288	Y = 581,757	37 55 51.13	86 00 44.95
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Garnettsville, 0.8 mi N. of, at rd. forks; on W. side of N.-S. rd. in line with rd. E. to Muldrough; on iron post; standard cap stamped "PRIM TRAV STA NO 160 1918 480"

	X = 1,919,598	Y = 581,894	37 55 52.35	86 01 43.50
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Garnettsville; at SW. corner of crossroads; on iron post; standard cap stamped "PRIM TRAV STA NO 174 1918 479" (Not found, 1960)

	X = 1,919,865	Y = 578,156	37 55 15.41	86 01 40.03
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Muldrough, 1.5 mi NW. of, 1.0 mi N. of Garnettsville Road; 42 ft E. of rd.; 8 ft N. of private T-rd. E.; on iron post; standard tablet stamped "PRIM TRAV STA NO 200 1918 705"

	X = 1,923,021	Y = 585,166	37 56 24.80	86 01 00.89
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STATION DESCRIPTION
PLANE COORDINATES, FEET

LATITUDE
° ' "

LONGITUDE
° ' "

OBSOLETE MARKS (Cont'd.)

Bartles, 0.5 mi SE. of, 0.4 mi NW. of Bartles School; on N. edge of rd. to station; on E. side of rd. NE.; on iron post; standard tablet stamped "PRIM TRAV STA NO 205 1918 419"

Ky. S.) X = 1,923,337 Y = 597,160 37 58 23.38 86 00 57.37

Bartles School, 0.9 mi NE. of, in SE. angle of crossroads; on iron post; standard tablet stamped "PRIM TRAV STA NO 206 1918 474"

X = 1,925,461 Y = 599,052 37 58 42.14 86 00 30.91

By C. B. Kendall, 1928; Book C8382

Vine Grove, 3.75 mi SW. of; 3.1 mi SE. of Flaherty; in S. corner of crossroads; 30 ft S. of intersection of Brandenburg-Elizabethtown and Big Spring-Vine Grove Roads; at public rd. SW.; in pasture; 10 ft S. of corner of post of wire fence; in concrete post; standard tablet stamped "TT STA NO 1 K 1928" (Not found, 1960)

X = 1,918,949 Y = 534,921 37 48 07.95 86 01 49.85

Flaherty; in NW. corner of junction of Bradenburg-Elizabethtown pike and public rd. SW. to Big Spring; at fence corner; 15 ft N. and 40 ft W. of center of junction; in concrete post; standard tablet stamped "TT STA NO 2 K 1928"

X = 1,908,713 Y = 547,355 37 50 10.56 86 03 57.91

Garrett, 1.25 mi SW. of; 30 ft N. and 20 ft E. of junction of old Salt River Road and Brandenburg-Big Spring pike; in corner of wire fence; in concrete post; standard tablet stamped "TT STA NO 4 K 1928"

X = 1,889,788 Y = 566,655 37 53 20.67 86 07 54.78

Hill Grove; in NE. corner of crossroads; 30 ft S. and 50 ft E. of intersection; in limestone outcrop; standard tablet stamped "TT STA NO 5 K 1928"

X = 1,880,661 Y = 563,211 37 52 46.24 86 09 48.44

Bewleyville, 2.0 mi NE. of, 120 ft S. of junction; 30 ft N. and 30 ft E. of farmhouse; in concrete post; standard tablet stamped "TT STA NO 6 K 1928" (Not found, 1961)

X = 1,867,760 Y = 551,032 37 50 45.25 86 12 28.61

Bewleyville; 100 ft W. of four corners; 25 ft S. of W. entrance to Methodist Church; in limestone outcrop; standard tablet stamped "TT STA NO 7 K 1928"

X = 1,857,176 Y = 548,993 37 50 24.56 86 14 40.42

STATION	DESCRIPTION	LATITUDE	LONGITUDE
PLANE COORDINATES, FEET		" ' "	" ' "

OBSOLETE MARKS (Cont'd.)

By C. B. Kendall, 1928; Book C8382

Irvington, 4.0 mi NE. of; 32 ft W. of U.S. Highway 60; 35 ft S. of T-rd. S.; on top of hill; in concrete post; standard tablet stamped "TT STA NO 10 K 1928" (Not found, 1961)

Ky. S.)	X = 1,857,638	Y = 581,429	37 55 45.25	86 14 36.78
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Brandenburg, 3.7 mi SW. of; 25 ft SE. of center of U.S. Highway 60; 3 ft E. of wire fence; in line with public rd. NW. to Highland Church; in concrete post; standard tablet stamped "TT STA NO 11 K 1928"

	X = 1,863,890	Y = 595,183	37 58 01.54	86 13 19.60
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Long Branch, 800 ft NE. of station, along L. & N. RR.; 100 ft N. of centerline of main track; 25 ft N. and 15 ft W. of centerline of rd. at junction of T-rd. N. to residence of E. F. Lyon; 8 ft W. of W. gatepost; in concrete post; standard tablet stamped "TT STA NO 13 K 1928" (Not found, 1960)

	X = 1,900,959	Y = 605,184	37 59 42.21	86 05 37.19
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Rock Haven, 115 ft N. of station, along L. & N. RR.; 83 ft NE. of crossing; 79 ft NE. of, and 4 ft lower than N. rail of track; 36 ft E. of centerline of dim rd. to river; 2 ft W. of 30-in. locust tree; in boulder; standard tablet stamped "TT STA NO 14 K 1928 436"

	X = 1,912,599	Y = 591,690	37 57 28.98	86 03 11.24
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Corners; 6 ft S. of SW. corner of Corners Methodist Church; in concrete post; standard tablet stamped "TT STA NO 15 K 1928 TT 18 MS 1946"

	X = 1,861,608	Y = 533,161	37 47 48.27	86 13 44.18
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Custer, 2.3 mi N. of; 450 ft S. of covered bridge; 50 ft W. of centerline of rd.; 40 ft S. and 50 ft W. of junction of private T-rd. W.; in limestone outcrop; standard tablet stamped "TT STA NO 16 K 1928"

	X = 1,859,203	Y = 522,361	37 46 01.37	86 14 13.44
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By R. C. Darnell, 1945; Book H 190

Garrett, 3.8 mi E. of, along U.S. Highway 60; 4.6 mi SW. of junction of U.S. Highways 31 and 60; 34 ft N. of junction of private rd. N.; at SW. corner of field; 3 ft higher than hwy.; in concrete post; standard tablet stamped "TT 21 RCD 1945" (Reported destroyed, 1960)

	X = 1,910,724	Y = 564,415	37 52 59.28	86 03 33.53
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Garrett, 1.2 mi NE. of; 38 ft N. and 30 ft E. of centerline of rd. at junction of private T-rd. N.; 1 ft E. of fenceline; in concrete post; standard tablet stamped "TT 22 RCD 1945" (Reported destroyed, 1960)

	X = 1,900,318	Y = 573,167	37 54 25.44	86 05 43.73
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STATION DESCRIPTION
PLANE COORDINATES, FEET

LATITUDE
° ' "

LONGITUDE
° ' "

OBSOLETE MARKS (Cont'd.)

Buck Grove, 2.3 mi NE. of, along Buck Grove Road; 20 ft N. and 48 ft E. of centerline of rd. at junction of I-rd. E.; on bank; in concrete post; standard tablet stamped "TI 23 RCD 1945" (Reported destroyed, 1960)

Ky. S.) X = 1,901,676 Y = 579,704 37 55 30.12 86 05 27.08

Rockridge School, 0.6 mi N. of; 30 ft E. of centerline of rd.; on bank; 2 ft W. of fenceline; in concrete post; standard tablet stamped "TI 25 RCD 1945"

X = 1,901,870 Y = 597,886 37 58 29.87 86 05 25.47

Brandenburg Station, 3.7 mi NE. of, along L. & N. RR.; 0.2 mi SE. of private rd. crossing; 14 ft SW. of, and 4 ft lower than SW. rail of track; in SE. end of SW. concrete headwall of bridge under RR.; NGS standard disk stamped "Q 81 1935"

X = 1,900,072 Y = 605,550 37 59 45.57 86 05 48.28

Brandenburg, 2.6 mi E. of; 200 ft N. of abandoned schoolhouse; 47 ft S. and 50 ft E. of junction of drive to school; 30 ft S. of centerline of rocky rd.; on bank; in rock; standard tablet stamped "TI 26 RCD 1945" (Not found, 1961)

X = 1,890,885 Y = 606,850 37 59 58.07 86 07 43.11

By J. A. Mathias, 1946; Book H 300

Vine Grove, 3.1 mi SW. of, 2.8 mi NW. of Rineyville; 34 ft NW. of junction of I-rd. W.; in concrete post; standard tablet stamped "TI 3 MS 1946" (Not found, 1960)

X = 1,925,978 Y = 527,331 37 46 53.11 86 00 22.02

Big Spring, 2.5 mi SE. of; 25 ft NW. of crossroads; in concrete post; standard tablet stamped "TI 9 MS 1946" (Reported destroyed, 1961)

X = 1,891,137 Y = 525,221 37 46 31.09 86 07 35.90

Big Spring, 1.0 mi E. of; 375 ft S. and 50 ft W. of junction of I-rd.; in pasture; in limestone outcrop; standard tablet stamped "TI 10 MS 1946"

X = 1,889,532 Y = 533,709 37 47 54.94 86 07 56.31

Big Spring, 1.25 mi N. and 2.0 mi E. of; 0.7 mi S. of Old Clarkson Spring; 30 ft N. of intersection of rd. and lane W. through field to house; in SW. corner of pasture; 23 ft NE. of 12-in. black walnut tree; in fence corner; in concrete post; standard tablet stamped "TI 11 MS 1946" (Not found, 1960)

X = 1,894,079 Y = 540,390 37 49 01.17 86 06 59.98

STATION	DESCRIPTION PLANE COORDINATES, FEET	LATITUDE ° ' "	LONGITUDE ° ' "
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OBSOLETE MARKS (Cont'd.)

Big Spring, 3.0 mi N. of; 58 ft N. and 20 ft E. of centerline of rd. at junction of I-rd. E.; in concrete post; standard tablet stamped "TI 12 MS 1946"

Ky. S.)	X = 1,889,154	Y = 546,258	37 49 58.99	86 08 01.65
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Big Spring, 5.0 mi N. of; 15 ft N. and 15 ft W. of centerline of rd. at junction of rd. SE.; and 21 ft on centerline extended NW.; in concrete post; standard tablet stamped "TI 13 MS 1946" (Not found, 1961)

	X = 1,888,634	Y = 557,262	37 51 47.76	86 08 08.69
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Brandenburg, 3.8 mi SE. of; at Buck Grove; 42 ft S. and 15 ft W. of crossroads; in fence corner; in concrete post; standard tablet stamped "TI 14 MS 1946" (Not found, 1961)

	X = 1,891,076	Y = 577,359	37 55 06.54	86 07 39.25
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Brandenburg, 1.5 mi SE. of station; 28 ft S. and 22 ft E. of centerline of hwy. at junction of I-rd. E.; in concrete post; standard tablet stamped "TI 15 MS 1946"

	X = 1,888,035	Y = 588,462	37 56 56.18	86 08 17.77
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Brandenburg Station, 282 ft N. of N. end of L. & N. RR. station; 108 ft NE. of water tank standpipe; 39 ft NW. of NW. rail of main track; in concrete post; NGS standard disk stamped "N 81 1935"

	X = 1,887,352	Y = 596,246	37 58 13.10	86 08 26.74
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Brandenburg Station, 1.9 mi NE. of, along L. & N. RR.; 56 ft SW. of private rd. crossing; 42 ft W. of W. rail; 25 ft S. of centerline of private rd.; 11 ft SE. of fence corner; 4 ft E. of pole; in concrete post; NGS standard disk stamped "P 81 1935"

	X = 1,891,413	Y = 604,262	37 59 32.51	86 07 36.38
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Bewleyville, 1.8 mi S. of, 1.5 mi N. of Corners Crossroads; at top of hill; 15 ft S. and 24 ft W. of crossroads; in concrete post; standard tablet stamped "TI 19 MS 1946" (Reported destroyed, 1961)

	X = 1,860,654	Y = 539,759	37 48 53.45	86 13 56.48
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By D. W. Pinkston, 1948; Book AH 84

Davidson, 2.5 mi N. of; 1.7 mi E., thence 2.7 mi S. of Laconia; near cor. secs. 10, 11, 14 and 15, T. 6 S., R. 4 E.; 8 ft S. and 24 ft W. of crossroads; in NE. corner of field; in concrete post; standard tablet stamped "TI 45 D 1939"

	X = 1,914,123	Y = 605,069	37 59 41.30	86 02 52.75
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STATION DESCRIPTION
 PLANE COORDINATES, FEET

LATITUDE
° ' "

LONGITUDE
° ' "

OBsolete MARKS (Cont'd.)

By J. R. Harris, and T. W. Cayce, 1951; 1952; Book AH 232

Guston, 1.0 mi SW. of; 90 ft S. of centerline of rd. at junction of I-rd. SE.; 35 ft NW. of 24-in. oak tree; in limestone outcrop; standard tablet stamped "TT 100 TWC 1951"

X = 1,860,411 Y = 563,127 37 52 44.46 86 14 01.00

Guston; 132 ft NW. of NW. corner of post office; 36 ft E. of L. & N. RR. station; 33 ft S. of S. rail; in concrete post; NGS standard disk stamped "G 81 1935"

X = 1,863,163 Y = 567,449 37 53 27.33 86 13 26.95

MARKS TIED BY NGS

By C. B. Kendall, 1928; Book C8382

Garrett, 1.5 mi SE. of, in SE. angle of intersection of U.S. Highway 60 and State Highway 64; 29 ft E. of center of State Highway 64; 3 ft SW. of powerline and 1 ft S. of white witness post; in concrete post projecting 6 in.; standard tablet stamped "TT STA NO 3 K 1928"

X = 1,899,267.46 Y = 563,959.60 37 52 54.384 86 05 56.410

By R. C. Darnell, 1945; Book H 190

Brandenburg, about 5 mi SE. of; 4 mi N. of Garrett, at junction of two graveled rds.; 90 ft N. of center of graveled rd.; 32 ft E. of center of graveled rd.; in concrete post projecting 4 in.; standard tablet stamped "TT 24 RCD 1945"

X = 1,897,665.37 Y = 589,886.24 37 57 10.637 86 06 17.607